Amendments to the Claims:

This listing of claims will replace all prior versions, of claims in the present application:

Listing of Claims:

1. (Currently Amended) A semiconductor fabrication apparatus to process a wafer, comprising:

an air-tight housing in which an inert gas is admittable and exhaustible; and

a plurality of adjacent deposition chambers positioned within the air-tight housing, wherein the substrate temperature in forming the thin film is approximately that of room temperature.

- 2. (Previously Presented) The apparatus of claim 1, wherein one of the deposition chambers is a facing target sputtering chamber.
- 3. (Previously Presented) The apparatus of claim 2, wherein the deposition chamber further comprises:

a pair of target plates placed at opposite ends of said chamber respectively so as to face each other and form a plasma region therebetween;

a pair of magnets respectively disposed adjacent to said target plates such that magnet poles of different polarities face each other across said plasma region thereby to establish a magnetic field of said plasma region between said target plates;

a substrate holder disposed adjacent to said plasma region, said substrate holder adapted to hold a substrate on which an alloyed thin film is to be deposited; and

a back-bias power supply coupled to the substrate holder.

- 4. (Previously Presented) The apparatus of claim 3, wherein the back-bias power supply is a DC or an AC electric power source.
- 5. (Previously Presented) The apparatus of claim 1, further comprising a robot arm to move the wafer.
- 6. (Previously Presented) The apparatus of claim 1, further comprising a magnetron coupled to the chamber.
- 7. (Previously Presented) The apparatus of claim 1, further comprising a chuck heater mounted above the wafer.
- 8. (Previously Presented) The apparatus of claim 1, further comprising a rotary chuck to move a wafer.
- 9. (Previously Presented) The apparatus of claim 1, further comprising a linear motor to move the rotary chuck and sequentially expose the wafer to a plurality of chambers.

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- 10. (Previously Presented) The apparatus of claim 1, wherein each chamber provides a collimated deposition pattern.
- 11. (Previously Presented) The apparatus of claim 1, wherein each chamber further comprises a door that opens during each chamber's deposition and closes when the chamber is not depositing.
- 12. (Previously Presented) The apparatus of claim 11, wherein each door comprises a baffle to catch falling particulates.
- 13. (Previously Presented) The apparatus of claim 1, wherein the chambers share magnets.
- 14. (Previously Presented) The apparatus of claim 1, further comprising a housing pump to evacuate air from the housing.
- 15. (Previously Presented) The apparatus of claim 1, wherein each chamber further comprises a chamber pump.
- 16. (Previously Presented) The apparatus of claim 1, further comprising chuck supported from underneath rather than from the side.

- 17. (Previously Presented) The apparatus of claim 1, further comprising a jointed pendulum to support the wafer and keep the wafer at a constant vertical distance from a target plate as the pendulum swings.
- 18. (Currently Amended) A method for sputtering a thin film onto a substrate, comprising:

providing a plurality of adjacent deposition chambers, each sharing at least one magnet with a neighboring chamber and having at least one target and a substrate having a film-forming surface portion and a back portion, wherein the substrate temperature in forming the thin film is approximately that of room temperature;

creating a magnetic field so that the film-forming surface portion is placed in the magnetic field with the magnetic field induced normal to the film-forming surface portion back-biasing the back portion of the substrate;

and sputtering material onto the film-forming surface portion.

- 19. (Previously Presented) A method as in claim 18, further comprising swinging the substrate using a pendulum.
- 20. (Previously Presented) A method as in claim 18, further comprising supporting a chuck from underneath rather than side-way.

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